Name:

at1113exam: Expand, factor, and solve quadratics (v201)

1. Expand the following expression into standard form.

$$(4x + 7)(3x - 2)$$

2. Expand the following expression into standard form.

$$(3x - 5)^2$$

3. Solve the equation.

$$(7x - 9)(5x - 8) \;=\; 0$$

4. Expand the following expression into standard form.

$$(8x - 9)(8x + 9)$$

5. Solve the equation.

$$7x^2 + 39x - 45 \;=\; 2x^2 + 5x + 3$$

6. Solve the equation with factoring by grouping.

$$8x^2 - 10x - 12x + 15 \;=\; 0$$

7. Factor the expression.

$$x^2 + 16x + 63$$

8. Factor the expression.

$$49x^2 - 64$$